

National Functional Guidelines Report #03

Lab DATA(ALS Environmental) SDG F9M21 Case 45316 Contract EPW11037 Region 6 DDTID 216975 SOW SOM01.2

Data Review Reports

Blanks

Blanks	VOA_Low_Med
VLB11	The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank common contaminant concentration is less than 2x the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.
	F9M21, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M35, F9M37, F9M38, F9M39RE, F9M40, F9M41
	Methylene chloride F9M21, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M37, F9M38, F9M39RE, F9M40, F9M41
Blanks	VOA_Low_Med
VLB46	The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated storage blank common contaminant concentration is less than 2x the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.
	F9M21, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M35, F9M37, F9M38, F9M39RE, F9M40, F9M41
	Methylene chloride F9M21, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M37, F9M38, F9M39RE, F9M40, F9M41

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Blanks

Blanks	Pest
PLB16	The following pesticide samples have analyte concentrations reported less than the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PLCSS1 Dieldrin F9M21, F9M25, F9M26, F9M27, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M38, F9M39, PLCSS1 delta-BHC F9M21, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M30, F9M31, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PLCSS1 Methoxychlor PLCSS1 Endrin aldehyde F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M30, F9M31, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PLCSS1 Heptachlor epoxide F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M31, F9M33, F9M34, PLCSS1 alpha-BHC F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41
Blanks	Pest
PLB17	The following pesticide samples have analyte concentrations reported greater than or equal to the CRQL. The associated method blank concentration is less than or equal to the concentration criteria. Detected and nondetected compounds are not qualified. F9M27MS, F9M27MSD Dieldrin F9M27MS, F9M27MSD
Blanks	Pest
PLB29	The following pesticide samples have analyte concentrations reported less than the CRQL. The associated initial instrument blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PLCSS1 gamma-BHC (Lindane) F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M28 Endrin aldehyde F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PLCSS1
Blanks	Pest
PLB33	The following pesticide samples have analyte concentrations reported less than the CRQL. The associated continuing instrument blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PLCSS1 gamma-BHC (Lindane) F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PLCSS1 Endrin aldehyde F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PLCSS1
Blanks	Pest
PLB34	The following pesticide samples have analyte concentrations reported greater than or equal to the CRQL. The associated continuing instrument blank concentration is less than or equal to the concentration criteria. Detected and nondetected compounds are not qualified.

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Blanks

Blanks	Pest
	F9M22, F9M24, F9M27, F9M27MS, F9M27MSD, F9M29, F9M30, F9M32, F9M33
	gamma-BHC (Lindane) F9M22, F9M24, F9M27, F9M27MS, F9M27MSD, F9M29, F9M30, F9M33
	Endrin aldehyde F9M29, F9M32

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Continuing Calibration Verification

Continuing Calibration Verification	VOA_Low_Med
VC14	The following volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R. F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M37, F9M38, F9M39, F9M39RE, F9M40, F9M41, VBLKS1, VBLKS2, VHBLKS1
	1,4-Dioxane VSTD050S1, VSTD050S2, VSTD050S3, VSTD050S4
	F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M37, F9M38, F9M39, F9M39RE, F9M40, F9M41, VBLKS1, VBLKS2, VHBLKS1

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Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	BNA
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9M21, F9M22, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41
	2,4-Dinitrophenol SSTD020P2
	Hexachlorocyclopentadiene SSTD020P2
	Pentachlorophenol SSTD020G1, SSTD020GP
	F9M21, F9M22, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41

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Continuing Calibration Verification

Continuing Calibration Verification	BNA_SIM
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified U. F9M21, F9M22, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M38, F9M39 Pentachlorophenol SSTD0.4DN, SSTD0.4N1, SSTD0.4N2 F9M21, F9M22, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M38, F9M39
Continuing Calibration Verification	BNA_SIM
BC14	The following semivolatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R. F9M21, F9M22, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M38, F9M39 Pentachlorophenol SSTD0.4DN, SSTD0.4N1 F9M21, F9M22, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M38, F9M39

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Data Review Reports

DMC/Surrogate

DMC/Surrogate	VOA_Low_Med
VDSS3	The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M30
	Benzene-d6 F9M30
	Benzene
	1,2-Dichloropropane-d6 F9M30
	1,2-Dichloropropane, Bromodichloromethane, Cyclohexane, Methylcyclohexane

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DMC/Surrogate

DMC/Surrogate	BNA
BDSS15	The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9M21, F9M25, F9M26, F9M27, F9M28, F9M31, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41
	4-Chloroaniline-d4 F9M21, F9M25, F9M26, F9M28, F9M31, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41
	3,3'-Dichlorobenzidine, 4-Chloroaniline, Hexachlorocyclopentadiene
	Benzo(a)pyrene-d12 F9M27
	Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene

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Data Review Reports

Detection Limit

Detection Limit	VOA_Low_Med
VDL1	The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M37, F9M38, F9M39, F9M39RE, F9M40, F9M41, VBLKS1, VBLKS2, VHBLKS1
	1,2-Dichlorobenzene VBLKS1, VBLKS2
	m,p-Xylene F9M25, F9M28, F9M29, F9M30, F9M30RE, F9M32, F9M33, F9M34, F9M37, F9M38, F9M39, F9M40, F9M41
	1,2-Dibromo-3-chloropropane VBLKS1
	Toluene F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M29, F9M31, F9M32, F9M33, F9M34RE, F9M35, F9M40
	1,2,3-Trichlorobenzene VBLKS1, VBLKS2
	1,4-Dichlorobenzene VBLKS1, VBLKS2
	2-Butanone F9M22, F9M23, F9M26
	Ethylbenzene F9M30RE, F9M34
	Acetone F9M22, F9M24, F9M25, F9M26, F9M27, F9M28, F9M30RE, F9M33
	1,2,4-Trichlorobenzene VBLKS1, VBLKS2
	o-Xylene F9M30RE
	1,3-Dichlorobenzene VBLKS1, VBLKS2
	Methylene chloride F9M21, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M37, F9M38, F9M39RE, F9M40, F9M41, VBLKS1, VBLKS2, VHBLKS1

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Detection Limit

Detection Limit	BNA
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified. F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M39, F9M40, F9M41
	Benzo(k)fluoranthene F9M34, F9M35, F9M37, F9M40
	Anthracene F9M23, F9M24, F9M37, F9M40
	Fluoranthene F9M21, F9M22, F9M23, F9M24, F9M25, F9M32, F9M34, F9M35, F9M41
	Fluorene F9M23, F9M24, F9M40
	Benzo(g,h,i)perylene F9M21, F9M23, F9M37, F9M40
	Naphthalene F9M40
	Pyrene F9M21, F9M22, F9M25, F9M26, F9M32, F9M34, F9M35, F9M41
	Indeno(1,2,3-cd)pyrene F9M21, F9M34, F9M35, F9M37, F9M40
	Acenaphthylene F9M37, F9M40
	Benzo(a)anthracene F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M32, F9M34, F9M35, F9M41
	Di-n-butylphthalate F9M34
	Chrysene F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M32, F9M33, F9M34, F9M35, F9M41
	Phenanthrene F9M23, F9M24, F9M25, F9M34, F9M35, F9M37, F9M41
	Acenaphthene F9M23, F9M40
	Carbazole F9M37, F9M40
	Benzo(b)fluoranthene F9M21, F9M22, F9M23, F9M25, F9M26, F9M32, F9M33, F9M34, F9M35, F9M41
	Dibenzofuran F9M40
	Benzo(a)pyrene F9M21, F9M23, F9M24, F9M25, F9M32, F9M34, F9M35, F9M37, F9M41
	2-Methylnaphthalene F9M24, F9M40
	Bis(2-ethylhexyl)phthalate F9M21, F9M28, F9M31, F9M34, F9M35, F9M37, F9M39
	Dibenzo(a,h)anthracene F9M37, F9M40

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Data Review Reports

Detection Limit

Detection Limit	BNA_SIM
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified. F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41 Benzo(k)fluoranthene F9M21, F9M22, F9M25, F9M26, F9M27, F9M28, F9M31, F9M38, F9M39, F9M41 Anthracene F9M21, F9M22, F9M24, F9M26, F9M27, F9M28, F9M31, F9M35, F9M37, F9M38, F9M39, F9M41 Fluoranthene F9M24, F9M29 Benzo(g,h,i)perylene F9M23, F9M24, F9M27, F9M28, F9M31, F9M32, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40 Fluorene F9M24, F9M25, F9M34, F9M35, F9M40 Naphthalene F9M25, F9M28, F9M31, F9M34, F9M35, F9M38, F9M40 Pyrene F9M29 Indeno(1,2,3-cd)pyrene F9M23, F9M29, F9M41 Acenaphthylene F9M21, F9M25, F9M26, F9M31, F9M32, F9M33, F9M34, F9M35, F9M38, F9M39, F9M40, F9M41 Benzo(a)anthracene F9M24, F9M29 Chrysene F9M24, F9M29 Phenanthrene F9M22, F9M28, F9M29, F9M41 Acenaphthene F9M23, F9M24, F9M34, F9M35, F9M40 Benzo(b)fluoranthene F9M23, F9M29 Benzo(a)pyrene F9M24, F9M41 2-Methylnaphthalene F9M21, F9M23, F9M24, F9M25, F9M28, F9M31, F9M34, F9M39, F9M40 Dibenzo(a,h)anthracene F9M21, F9M22, F9M25, F9M26, F9M27, F9M28, F9M31, F9M32, F9M33, F9M35, F9M37, F9M38, F9M39, F9M40

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Detection Limit

Detection Limit	Pest
PDL1	The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified. F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PBLKS1, PLCSS1 Endosulfan II F9M21, F9M22, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41 Endosulfan I F9M23, F9M24 4,4'-DDT F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41 Aldrin F9M21, F9M22, F9M24, F9M25, F9M26, F9M28, F9M37, F9M40 Dieldrin F9M21, F9M25, F9M26, F9M27, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M38, F9M39, PBLKS1, PLCSS1 gamma-BHC (Lindane) F9M21, F9M23, F9M25, F9M26, F9M28, F9M31, F9M32, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PLCSS1 delta-BHC F9M21, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M30, F9M31, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PBLKS1, PLCSS1 Endrin aldehyde F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M30, F9M31, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PBLKS1, PLCSS1 beta-BHC F9M21, F9M22, F9M24, F9M25, F9M26, F9M27, F9M30, F9M31, F9M33, F9M35, F9M37, F9M38, F9M41 alpha-Chlordane F9M21, F9M25, F9M28 4,4'-DDE F9M21, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M40, PLCSS1 Endosulfan sulfate F9M21, F9M22, F9M23, F9M24, F9M28, F9M29, F9M31, F9M33, F9M38, F9M39, PLCSS1 Heptachlor F9M27, F9M28, F9M34, F9M35, F9M38, F9M39, F9M40, F9M41, PLCSS1 gamma-Chlordane F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M29, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M39, F9M40, F9M41, PLCSS1 4,4'-DDD F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M30, F9M32, F9M33, F9M34, F9M35, F9M37, F9M39, F9M40, F9M41 Endrin ketone F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M31, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PLCSS1 Methoxychlor PBLKS1, PLCSS1 Endrin F9M21, F9M22, F9M23, F9M24, F9M25, F9M27, F9M28, F9M30, F9M31, F9M32, F9M34, F9M35, F9M37, F9M40, F9M41, PLCSS1 Heptachlor epoxide F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M31, F9M33, F9M34, PBLKS1, PLCSS1 alpha-BHC F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PBLKS1 Endosulfan II F9M21, F9M22, F9M27, F9M27MS, F9M27MSD, F9M28, F9M30, F9M31, F9M32, F9M33, F9M37, F9M38, F9M40, F9M41
Detection Limit	Pest
PDL3	The percent difference between analyte results for the following pesticide samples is greater than 25%. Detected and nondetected compounds are not qualified. F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PBLKS1 Endosulfan II F9M21, F9M22, F9M27, F9M27MS, F9M27MSD, F9M28, F9M30, F9M31, F9M32, F9M33, F9M37, F9M38, F9M40, F9M41

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Lab DATA(ALS Environmental) **SDG** F9M21 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216975 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit	Pest
	Endosulfan I F9M23
	4,4'-DDT F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M31, F9M32, F9M33, F9M38, F9M40, F9M41
	Aldrin F9M21, F9M22, F9M24, F9M25, F9M26, F9M37, F9M40
	gamma-BHC (Lindane) F9M23, F9M25, F9M26, F9M28, F9M31, F9M32, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41
	Dieldrin F9M21, F9M25, F9M27, F9M29, F9M30, F9M31, F9M32, F9M34, F9M35, F9M38, F9M39, PBLKS1
	delta-BHC F9M21, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M30, F9M31, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, PBLKS1
	Endrin aldehyde F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M28, F9M30, F9M31, F9M33, F9M34, F9M35, F9M37, F9M39, PBLKS1
	beta-BHC F9M21, F9M22, F9M24, F9M25, F9M26, F9M27, F9M30, F9M31, F9M33, F9M37, F9M38, F9M41
	alpha-Chlordane F9M21, F9M25, F9M28
	Endosulfan sulfate F9M22, F9M23, F9M24, F9M28, F9M29, F9M31, F9M33, F9M37, F9M38, F9M39
	4,4'-DDE F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M40
	4,4'-DDD F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M30, F9M32, F9M33, F9M34, F9M35, F9M37, F9M39, F9M40, F9M41
	Heptachlor F9M27, F9M28, F9M34, F9M35, F9M38, F9M39, F9M40, F9M41
	gamma-Chlordane F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M29, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M39, F9M40, F9M41
	Methoxychlor PBLKS1
	Endrin ketone F9M22, F9M23, F9M24, F9M28, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41
	Endrin F9M21, F9M22, F9M23, F9M24, F9M25, F9M27, F9M28, F9M30, F9M31, F9M32, F9M34, F9M35, F9M37, F9M40, F9M41
	Heptachlor epoxide F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M27MS, F9M27MSD, F9M31, F9M34, PBLKS1
	alpha-BHC F9M22, F9M23, F9M24, F9M25, F9M26, F9M27MS, F9M27MSD, F9M28, F9M29, F9M30, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41

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Lab DATAc(ALS Environmental) **SDG** F9M21 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216975 **SOW** SOM01.2

Data Review Reports

Detection Limit

Detection Limit		Aroclor
ADL1		The following aroclor samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
ALCSS1		
Aroclor-1016 ALCSS1		
Detection Limit		Aroclor
ADL3		The relative percent difference between analyte results for the following aroclor samples is greater than 25%. Detected and nondetected compounds are not qualified.
F9M27MSD		
Aroclor-1260 F9M27MSD		

National Functional Guidelines Report #03**Lab** DATA(ALS Environmental) **SDG** F9M21 **Case** 45316 **Contract** EPW11037 **Region** 6 **DDTID** 216975 **SOW** SOM01.2***Data Review Reports*****Holding Times**

Holding Times	BNA_SIM
BHT4	The following semivolatile samples are outside primary analysis holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F9M21, F9M22, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M38, F9M39

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Data Review Reports

Initial Calibration

Initial Calibration	VOA_Low_Med
VC15	<p>The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.</p> <p>F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M37, F9M38, F9M39, F9M39RE, F9M40, F9M41, VBLKS1, VBLKS2, VHBLKS1</p> <p>1,4-Dioxane VSTD005SS, VSTD010SS, VSTD050SS, VSTD100SS, VSTD200SS</p> <p>F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M37, F9M38, F9M39, F9M39RE, F9M40, F9M41, VBLKS1, VBLKS2, VHBLKS1</p>
Initial Calibration	VOA_Low_Med
VC20	<p>The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and nondetected compounds are not qualified.</p> <p>F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M37, F9M38, F9M39, F9M39RE, F9M40, F9M41, VBLKS1, VBLKS2, VHBLKS1</p> <p>1,4-Dioxane-d8 VSTD005SS, VSTD010SS, VSTD050SS, VSTD100SS, VSTD200SS</p> <p>F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M30RE, F9M31, F9M32, F9M33, F9M34, F9M34RE, F9M35, F9M37, F9M38, F9M39, F9M39RE, F9M40, F9M41, VBLKS1, VBLKS2, VHBLKS1</p>

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Data Review Reports

Internal Standard

Internal Standard	VOA_Low_Med
VIS31	The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Detected compounds are qualified J. Nondetected compounds are qualified R. F9M30, F9M30RE, F9M34, F9M34RE, F9M39, F9M39RE Chlorobenzene-d5 F9M30, F9M39RE 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2-Dibromoethane, 1,2-Dichloropropane, 2-Hexanone, 4-Methyl-2-Pentanone, Benzene, Bromodichloromethane, Carbon tetrachloride, Chlorobenzene, Cyclohexane, Dibromochloromethane, Ethylbenzene, Isopropylbenzene, Methylcyclohexane, Styrene, Tetrachloroethene, Toluene, Trichloroethene, cis-1,3-Dichloropropene, m,p-Xylene, o-Xylene, trans-1,3-Dichloropropene 1,4-Dichlorobenzene-d4 F9M30, F9M30RE, F9M34, F9M34RE, F9M39, F9M39RE 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Bromoform

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Lab DATA(ALS Environmental) SDG F9M21 Case 45316 Contract EPW11037 Region 6 DDTID 216975 SOW SOM01.2

Data Review Reports

TIC

TIC	BNA
BTIC1	A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample Detected compounds are qualified NJ. Nondetected compounds are not qualified. F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, SBLK93 Phenanthrene, 2,3,5-trimethyl- F9M23, F9M24
	Dodecanamide F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41
	10-Heneicosene (c,t) F9M34
	Stigmast-4-en-3-one F9M38, F9M39
	Stigmasterol F9M35
	Homosalate F9M21
	1-Methyldibenzothiophene F9M23
	26-Nor-5-cholest-3.beta.-ol-25-one F9M38
	trans-13-Octadecenoic acid F9M30
	E-10-Pentadecenol F9M30
	Phenanthrene, 2-methyl- F9M23, F9M24
	1H-Cyclopropa[1]phenanthrene,1a,9b-dihydro- F9M23
	.gamma.-Sitosterol F9M34, F9M38
	Furan, 2,5-dimethyl- F9M30, SBLK93
	.beta.-Sitosterol F9M35, F9M37, F9M40
	Naphthalene, 1,4,6-trimethyl- F9M23, F9M24
	Benzene, (4,5,5-trimethyl-1,3-cyclopentadien-1-y F9M23, F9M24
	Anthracene, 1,4-dimethyl- F9M24
	3-Buten-2-one, 3-methyl- F9M21, F9M25, F9M37
	4-O-Methylphenylhydrazone-3-methyl-2-pyrazolin-5 F9M32
	Tridecane, 1-iodo- F9M37
	Cholesterol F9M39
	10-Octadecenoic acid, methyl ester F9M38, F9M39
	Testosterone F9M37
	Methyl 13-methyltetradecanoate F9M37, F9M38, F9M39, F9M40

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Data Review Reports

TIC

TIC	BNA
	17-(1,5-Dimethylhexyl)-10,13-dimethyl-2,3,4,7,8, F9M30
	1-Hexacosene F9M38
	9H-Fluorene, 2-methyl- F9M23
	Pyrene, 1-methyl- F9M23, F9M24
	Squalene F9M21, F9M37, F9M38
	Phenanthrene, 3,6-dimethyl- F9M23
	13-Docosenamide, (Z)- F9M32
	Hexadecanamide F9M25, F9M40, SBLK93
	Octacosanol F9M38
	Pentadecanoic acid, 14-methyl-, methyl ester F9M37, F9M38
	Tetradecanamide F9M21, F9M25, F9M32, F9M37
	Methyl 11-hexadecenoate F9M39
	Naphthalene, 2-(1-methylethyl)- F9M23
	9-Octadecenoic acid (Z)-, methyl ester F9M38
	Naphthalene, 1,3-dimethyl- F9M24
	7-Nonenamide F9M25
	9-Hexadecenoic acid, methyl ester, (Z)- F9M37, F9M38, F9M39, F9M40
	9,12-Octadecadienoic acid, methyl ester, (E,E)- F9M38
	11-Octadecenoic acid, methyl ester F9M37
	Naphthalene, 1,4,5-trimethyl- F9M23
	9-Octadecenamide, (Z)- F9M21, F9M22, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, SBLK93
	Phenanthrene, 2,5-dimethyl- F9M23
	Octadecyl trifluoroacetate F9M37
	9,12,15-Octadecatrienoic acid, methyl ester, (Z, F9M40
	cis-9-Hexadecenoic acid F9M21
	Fluoranthene, 2-methyl- F9M24
	n-Hexadecanoic acid F9M21, F9M25, F9M26, F9M30, F9M31, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40

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TIC

TIC	BNA
	n-Tetracosanol-1 F9M40
	Octadecanamide F9M34
	Supraene F9M25
	2-Bromo dodecane F9M28
	16-Hentriacontanone F9M39
	1-Docosene F9M38
	Hexadecanoic acid, methyl ester F9M35, F9M39, F9M40
TIC	BNA
BTIC2	A library search indicates a match below 85% for a TIC compound in the semivolatile sample Detected compounds are qualified J. Nondetected compounds are not qualified. F9M21, F9M22, F9M23, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, SBLK93
	Unknown 1H-Indene, 2-phenyl- F9M24
	Unknown 2-Propanone, 1-hydroxy- F9M21, F9M28, F9M31, F9M39
	Unknown Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl- F9M37
	Unknown 1-Triacontanol F9M35
	Unknown Phenanthrene, 2,5-dimethyl- F9M24
	Unknown Cholestane-3,6-diol, (3.beta.,5.alpha.,6.alpha., F9M39
	Unknown 5-Iodopentan-2-one F9M39
	Unknown 1,7-Dicarbadodecaborane(12) F9M38
	Unknown 9H-Fluorene, 1-methyl- F9M23
	Unknown 2,3-Pentanedione F9M39
	Unknown 1,2-Ethanediol F9M25, F9M31, F9M32, F9M41
	Unknown 2-Methylbutanoic anhydride F9M21
	Unknown 2H-Imidazole, 2,2,4,5-tetramethyl- F9M26
	Unknown 1,2,3-Trimethylindene F9M35
	Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl) F9M30
	Unknown 3-Pentenoic acid, 4-methyl- F9M31
	Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.beta.)- F9M29

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Data Review Reports

TIC

TIC	BNA
	Unknown 7-Nonenamide F9M32, F9M33
	Unknown Fumaric acid, nonyl tetrahydrofurfuryl ester F9M26
	Unknown 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate F9M27, F9M28
	Unknown Diethyl carbitol F9M33
	Unknown 9H-Fluorene, 9,9-dimethyl- F9M23
	Unknown 2,6-Octadienoic acid, 3-methyl-, methyl ester, (SBLK93
	Unknown 2-Pentanone, 4-hydroxy- F9M21, F9M22, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41, SBLK93
	Unknown Tricyclo[3.3.1.1(3,7)]decane-2,6-dione, 4-(diazo F9M39
	Unknown Pentanoic acid, 2,4-dioxo-, methyl ester F9M37
	Unknown Oxirane, [(hexadecyloxy)methyl]- F9M39
	Unknown Pentadecanoic acid F9M30
	Unknown Anthracene, 1,4-dimethyl- F9M23
	Unknown Stigmast-4-en-3-one F9M35
	Unknown 1,3-Dioxolane-2-methanol, 2,4-dimethyl- F9M31
	Unknown 1-Hexene-3,5-dione F9M41
	Unknown .delta.-Selinene F9M29
	Unknown 2H-Pyran-2-one, 6-hexyltetrahydro- F9M26
	Unknown Oxirane-2-carboxylic acid, methyl ester F9M38
	Unknown Dodecanamide F9M21, F9M22, F9M25, F9M27, F9M32
	Unknown Ethanol, 2-(2-methoxyethoxy)- F9M21
	Unknown 6-Amino-2,4-dithiouracil SBLK93
	Unknown 1,2,3-Propanetriol, 1-acetate F9M26, F9M38
	Unknown Stearic acid hydrazide F9M34, F9M39
	Unknown 9,19-Cyclolanost-25-en-3-ol, 24-methyl-, (3.beta F9M34
	Unknown 2-Nonanone F9M21
	Unknown Phenanthrene, 2-methyl- F9M24
	Unknown Hexane, 2-bromo- F9M34

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TIC

TIC	BNA
	Unknown 1,3-Dioxolane, 2-(1-propenyl)- F9M27
	Unknown Ethanone, 1-(3,3-dimethyloxiranyl)- F9M38
	Unknown Propanedioic acid, 2-propenyl-, dimethyl ester F9M35
	Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro- F9M21, F9M22, F9M30
	Unknown Naphthalene, 1,4,6-trimethyl- F9M24
	Unknown 9,19-Cycloergost-24(28)-en-3-ol, 4,14-dimethyl-, F9M31
	Unknown 1H-Indole, 5-methyl-2-phenyl- F9M24
	Unknown Isothiazole, 4-methyl- F9M37
	Unknown Terephthalic acid, octyl 2-phenylethyl ester F9M31
	Unknown Phosphine, acetyltrimethyl- F9M40
	Unknown 2,3-Butanedione F9M37
	Unknown Propane, 2-chloro- F9M21
	Unknown 2-(2-Methoxyethoxy)ethyl acetate SBLK93
	Unknown Ethanol, 2-(2-ethoxyethoxy)- F9M31, F9M34, F9M41
	Unknown .beta.-Acetylacrylic acid F9M25
	Unknown 1,4-Benzenedicarboxylic acid, bis(2-hydroxyethyl) F9M34
	Unknown 13-Docosenamide, (Z)- F9M31
	Unknown Tetradecanamide F9M24, F9M27, F9M34, F9M35, F9M37, F9M40, F9M41
	Unknown 9H-Fluorene, 2-methyl- F9M24
	Unknown 1,3-Dioxolane, 2,2-dimethyl- F9M22, F9M27, F9M28, F9M29, F9M30, F9M33, F9M34, F9M35, F9M38, F9M39, F9M41
	Unknown Dithianone F9M31
	Unknown 1,2,5,6-Tetrahydropyridine, 1-methyl-6-[2-pyridy] F9M26
	Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-methoxy- F9M34, F9M37, F9M39, F9M40
	Unknown 9-Octadecenamide, (Z)- F9M38, F9M40
	Unknown Pyrrolidine, 3-methyl- F9M25
	Unknown E,E,Z-1,3,12-Nonadecatriene-5,14-diol F9M29
	Unknown 1-Propanol, 3-mercaptop- F9M38

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TIC

TIC	BNA
	Unknown Decanamide- F9M37
	Unknown 1-Undecene, 8-methyl- F9M30
	Unknown 1H-Pyrrole-2,5-dione F9M21, F9M22, F9M24, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M31, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41
	Unknown 9-Octadecenamide F9M32
	Unknown Hexane, 3-bromo- F9M35, F9M40
	Unknown 1-Docosene F9M39
	Unknown Methacrylamide F9M21, F9M26
	Unknown 2-Pentanone, 4-hydroxy-4-methyl- F9M23, F9M24, F9M26, F9M28, F9M29, F9M35, F9M37, F9M39, SBLK93
	Unknown Guanidine F9M21, F9M22, F9M25, F9M27, F9M30, F9M31, F9M32, F9M33, F9M34, F9M38, F9M40, F9M41
	Unknown N'-(4-Nitrobenzylidene)-2-pentyl-1-cyclopropanec F9M28
	Unknown 5-Octadecyne F9M30
	Unknown 4,4'-Dimethylbiphenyl F9M23
	Unknown Pentadecanamide, 15-bromo- F9M27
	Unknown 2,2,4,7-Tetramethyl-3,6,9-trioxa-2-silatridecane F9M22
	Unknown 3-Hexene-2,5-dione F9M39, SBLK93
	Unknown Benzeneethanamine, 2-fluoro-.beta.,3,4-trihydrox F9M28
	Unknown TATP F9M22, F9M25, F9M26, F9M27, F9M28, F9M29, F9M30, F9M32, F9M33, F9M34, F9M35, F9M37, F9M38, F9M39, F9M40, F9M41
	Unknown Propionic acid, 2-acetylamo-3,3,3-trifluoro-2- F9M31
	Unknown 2-Furaldehyde azine F9M25
	Unknown Naphthalene, 2,3,4,4a,5,6-hexahydro-1,4a-dimethy F9M28
	Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.3.0.0(4, F9M28, F9M31
	Unknown Pentanal, 2-methyl- F9M32
	Unknown 2-Hexenedioic acid, 2-methoxy-, dimethyl ester F9M38
	Unknown 2-Heptadecanone F9M34
	Unknown Phthalic acid, monoethyl ester F9M39
	Unknown 6-Nitroundec-5-ene F9M34
	Unknown 2-Pentanone F9M35

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Data Review Reports

TIC

TIC	BNA
	Unknown Z,Z-4,16-Octadecadien-1-ol acetate F9M40
	Unknown 1-Decene, 5-methyl- F9M41
	Unknown Cyclohexanecarboxamide F9M22, F9M27, F9M30, F9M33, F9M39
	Unknown Oxalic acid, diisohexyl ester F9M25
	Unknown Propanoic acid, 2-methyl-, 1-methylethyl ester F9M34, F9M37, F9M40
	Unknown Dibenzothiophene, 3-methyl- F9M24
	Unknown Undecanamide, 11-bromo- F9M37
	Unknown 1,6-Dihydropyridazine-3-carboxylic acid, 5-cyano F9M35
	Unknown 1,3-Dioxolane-4-methanol, 2-ethyl- F9M30
	Unknown Bicyclo[3.1.1]heptane, 2,6,6-trimethyl- F9M21
	Unknown Thiophene, 3-methyl- F9M37
	Unknown E-15-Heptadecenal F9M35
	Unknown Tetrahydrofuran, 2,2-dimethyl- F9M22
	Unknown Phthalic anhydride F9M34, F9M39, F9M40, F9M41
	Unknown 1-Propanol, 2-methyl- F9M35
	Unknown Benzoic acid, 4-methoxy-, 2-(2-furoylhydrazone) F9M37
	Unknown Stigmasterol F9M38
	Unknown Ethanone, 1-oxiranyl- F9M35
	Unknown Phytol F9M21
	Unknown Nitrosyl chloride F9M26, F9M27
	Unknown 1,1,4a-Trimethyl-5,6-dimethylenedecahydronaphtha F9M30, F9M41
	Unknown Hexane, 1,1'-oxybis- F9M38
	Unknown Naphthalene, decahydro-4a-methyl-1-methylene-7-(F9M30
	Unknown 2-Propanone, 1-chloro- F9M21, F9M25, F9M26